



## O'Keefe embraces the future

BY DOREEN B. ZUDELL

Administrator Sean O'Keefe acknowledged in his recent All Hands Meeting at Glenn on October 31 that NASA is facing challenging times, but affirmed that we have the ability to emerge from these challenges as a "stronger, safer, and smarter" Agency.

O'Keefe noted how the Agency—throughout its 45-year history—has built a distinguished reputation for performing work that no one else can, and that the public truly respects and supports this role. "If we had any doubts that what we do matters, those doubts should be dispelled," he said.

The Administrator pointed to the Columbia Accident Investigation Board (CAIB) report as a guide not only for addressing shuttle-related issues but also for the way NASA does business across the board.

He stressed that while new approaches are necessary, we should recognize that this is a renewal of a 45-year commitment that we already have in place.

"Part of what we need to focus on is communicating more effectively," O'Keefe explained. "The recent leadership appointments will help us tap into different perspectives that will lead us in this direction."

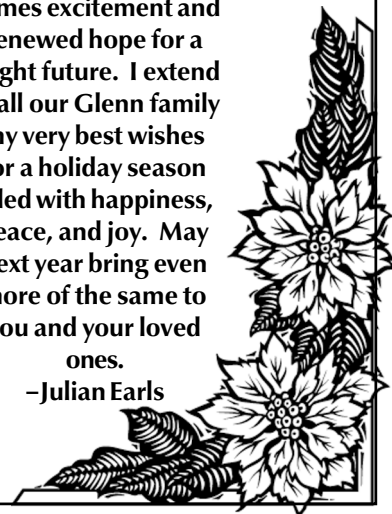
O'Keefe officially introduced Dr. Julian Earls as Glenn's new Center Director and lauded Earls for his commitment to the Center. He said that Earls has the ability to fully appreciate the history and traditions of this Center while being open to new ways of working with his colleagues.

Continued on page 3

## Director's Holiday Message

This holiday season brings many changes to the Glenn Research Center. With change comes excitement and renewed hope for a bright future. I extend to all our Glenn family my very best wishes for a holiday season filled with happiness, peace, and joy. May next year bring even more of the same to you and your loved ones.

—Julian Earls



C-2003-1979

Photo by Marvin Smith



Administrator O'Keefe, right, examines ion optics under development for the HiPEP thruster for the JIMO mission. Also pictured is, left to right, Center Director Dr. Julian Earls, Deputy Associate Administrator for Aerospace Technology Victor Lebacqz, and (center) Michael Patterson, Power and On-Board Propulsion Technology Division.

## Inside

**SILVER SNOOPY AWARDS** ..... 2  
Astronauts bestow personal tribute on Glenn employees

**A SPECIAL TEAM** ..... 3  
Glenn's Sikora reflects on role in space shuttle investigation

**NACAREUNION** ..... 7  
Some of NASA's early pioneers reunite in Cleveland

HAPPY HOLIDAYS





Blankschaen



Cooper



DeFelice



Frate



Fritz



Jules



Keller



Kusanke



Manner



Maynard-Nelson



McKissock



Miller



Pease



Pehotsky



Rolince



T'ien



Yee



## Astronauts' personal tribute Silver Snoopy Awards

Astronaut Carl Walz visited Glenn on November 5 to present Silver Snoopy Awards. This award is the astronauts' personal tribute to individuals whose single effort or long-term outstanding performance contributed to flight safety and mission success—the main priorities for human space flight. This recognition focuses on efforts that enhance the probability of mission success, such as improvements in design, administration, technology, production techniques, business systems, flight and/or system safety, or error identification/correction/prevention.

The coveted award is a sterling silver pin, which has flown aboard the space shuttle, in the form of Snoopy wearing a space helmet and space suit. Recipients are also given a certificate and a letter of commendation, personally signed by an astronaut, citing the astronauts' appreciation of outstanding performance.

The 2003 award recipients include **James Blankschaen**, Electrical and Avionics Systems Branch; **Beth Cooper**, Structural Systems Dynamics Branch; **David DeFelice**, Community and Media Relations Office; **David Frate**, Combustion Flight Projects Branch; **Carl Fritz**, self-employed mechanical designer; **Kenol Jules**, Microgravity Environment and Telescience Branch; **Jennifer Keller**, **Ken Kusanke**, and **Len Miller**, (ZINT) Engineering Design and Analysis Division; **David Manner**, (ZINT) Fluid Flights Project Branch; **Laura Maynard-Nelson**, Flight Software Engineering Branch; **Dave McKissock**, Analysis Management Branch; **Gary Pease**, Space Flight Project Branch; **Dennis Pehotsky**, Space Systems and Grants Branch; **Mingo Rolince**, (AKAC) Space Support Branch; **James T'ien**, (NCMR) Microgravity Science Division; and **Hin Leung Yee**, (SAIC).

Two team efforts were also awarded: "Booster Separation Motor (BSM) Particle on Orbiter Windows" and "Booster Separation Motor Foreign Object Debris Impact Risk Assessment." Structural Mechanics and Dynamics Branch members, pictured left to right (back), **Dr. Kelly Carney**, **Matthew Melis**, **Jeffrey Hammel** (AKAC), and **Duane Revilock**, (front) **Dale Hopkins**, and **Dr. J. Michael Pereira** comprised both teams. ♦



Photo by Christine Bodi

and D  
Revilock





## Return to Flight

GLENN RESEARCH CENTER

Graphic by Jim Lucic

# Sikora reflects on role with shuttle investigation board

BY DOREEN B. ZUDELL

*This is the second in a series of articles highlighting Glenn's significant role in the space shuttle investigation and Return to Flight efforts.*

When the Space Shuttle *Columbia* accident occurred on February 1, Glenn's Chief Counsel Bill Sikora had no idea how much his life would be personally affected by the tragedy.



Photo courtesy of NASA Kennedy

*Sikora, left, is pictured with USAF Major General John Barry next to the Shuttle Atlantis in the Vertical Assembly building during a visit to Kennedy Space Center.*

"I traveled to Barksdale Air Force Base in Louisiana to meet with the Columbia Accident Investigation Board on February 2 and then on to Johnson Space Flight Center later that week, where the board set up its headquarters," Sikora said. "I thought I would be needed for a couple of weeks to get the board set up, but it turned into a 6-month assignment as the legal advisor to the board."

The board, which drew members from NASA, other Federal agencies, the military, academia, and industry, performed an independent review of the accident. Board members visited recovery sites, interviewed witnesses, oversaw tests, conducted public hearings and provided updates to Congress and the media.

Sikora supported all of these activities. He helped draft the charter of the board and of the NASA task force team that supported the investigation. He also set up procedures for releasing information to the public, guided the board in the use of privileged witness statements, and ensured that the records of the board would be properly archived.

"The work was intense," Sikora explained. "For the first few months it was not unusual for us to work 12-hour days and weekends. It was 8 weeks until my first visit home."

Continued on page 6

## Administrator addresses Glenn

Continued from page 1

O'Keefe also affirmed the value of Richard Christiansen as the Center's new Deputy Director, who he said will work consistently under these two philosophies as well.

After the All Hands Meeting and tours of some of Glenn's facilities, O'Keefe traveled to downtown Cleveland to address these and other vital issues in a keynote address at the City Club. His trip also included a visit with *The Plain Dealer* editorial board. ♦

## One NASA rollout

Leader-led workshops, planned for all centers, show the connections of the Agency's mission to everyday work. These all-hands/town hall meetings are led by the center's director, Enterprise, and other associate administrators.

Glenn's workshop is scheduled for  
**Friday, December 12**  
**10 a.m. to noon**  
**DEB Auditorium**

Scheduled Speakers: Associate Administrator, Office of Space Science, Dr. Edward Weiler; Center Director, Stennis Space Center; Assistant Administrator, Public Affairs, Glenn Mahone; Director, Glenn, Dr. Julian Earls; and One NASA Team Chairperson Johnny Stephenson.

## Stennis gets new leadership

NASA Administrator Sean O'Keefe has appointed U.S. Navy Rear Admiral Thomas Q. Donaldson as director, John C. Stennis Space Center, effective January 5, 2004. Donaldson previously served as commander, Naval Meteorology and Oceanography Command.



Donaldson

Donaldson replaces Michael Rudolphi, interim director, since May 2003. Rudolphi will manage Marshall's Space Shuttle Propulsion Office.

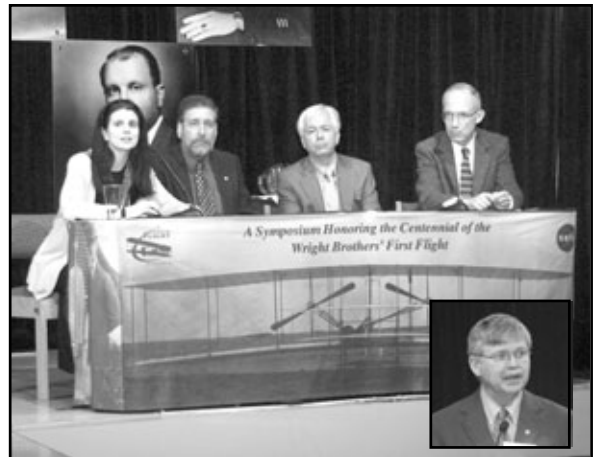


Throckmorton

David Throckmorton became deputy director on December 1. He previously served as Marshall Space Flight Center engineering directorate deputy director. ♦

## History Symposium

Daredevil pilots of the barnstorming era, bold entrepreneurs and military strategists of the 1930s and 1940s, and visionaries and down-to-Earth managers of the Space Age were a few of the aerospace leaders brought to life during the live Web cast and broadcast of the symposium "Realizing the Dream of Flight." Some of the country's most distinguished aerospace historians and scientists participated in the symposium, which was held November 5 at the Great Lakes Science Center. The event honored the Wright Brothers' invention along with the achievements of other well-known pioneers who helped make human flight one of the most important technical achievements of the 20<sup>th</sup> century. The symposium, sponsored by NASA and the U.S. Centennial of Flight Commission, also afforded the introduction of Dr. Steven J. Dick, NASA's new chief historian and director of the History Office.



C-2003-1977

Photos by Marvin Smith

Panelists for the "Aerospace Leaders and Managers" session included, left to right, Dr. Tami Biddle, Army War College; Michael Gorn, NASA Dryden; Edward Persey, Western Reserve Historical Society; and Andrew Dunar, University of Alabama in Huntsville. Dr. Steven Dick, NASA's chief historian, is pictured bottom right.

## Exchange Halloween



Photo by Mark Betlejewski

Spirits were lifted at the 6<sup>th</sup> Annual Halloween party and costume contest sponsored by the Glenn Exchange on October 31. Fun and refreshments were served as employees paraded through the Main Cafeteria in costume. The difficult job of judging went to Richard Flaisig (0620), Mary Tharp (2000), and Doreen Zudell (IDI/9300). Finalists received a \$25 Exchange Store gift certificate. Funniest: Ninette Poling (JDDI), Gary Weegmann (7190), and Blanche Preusser (0220). Scariest: Kim Convas (IDI/7190), Bob Hays (7190), and Mark Kilkenny (0170). Most Creative: Ruth Jackson and Renee Rubertino (ZINT/7700), Karen Cristino (QSS), and Lisa Pukach (IDI/0480). Children's category: Andrew Gallagher (son of Jim Gallagher, IDI/0620). Pictured is Karen Cristino who portrayed a member of the KISS band.

## Young Astronauts

More than 325 students (grades 1 to 12) representing 24 different schools came to Glenn to participate in the 11<sup>th</sup> Annual Young Astronaut Day on November 8. Once again, Glenn's Ultra-Efficient Engine Technology Project and the Northern Ohio Section of the American Institute of Aeronautics and Astronautics cosponsored the event, which encourages students from all over Ohio to focus their boundless energy on problemsolving tasks in engineering. Following the keynote address by astronaut Scott J. Horowitz (Col., USAF), students competed in activities such as a balsa glider flyoff, egg drop, Alka-Seltzer<sup>TM</sup> rocket challenge, flight simulator, bridge building, and land vehicle challenge. The enthusiasm sparked by this event and fueled by student effort was an indication of great promise for the next generation of scientists, engineers, and explorers!

Photo by Bob Davis

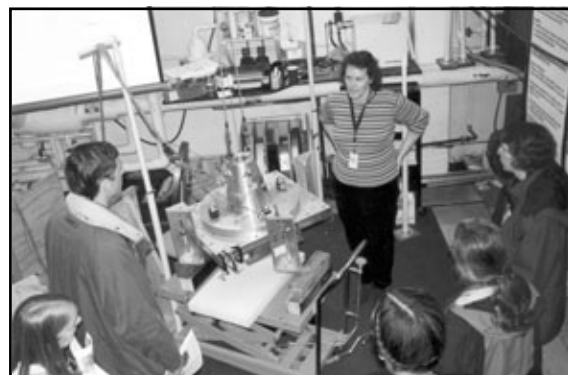


Dr. Roshanak Hakimzadeh, chief, Photovoltaics and Space Environment Branch, reviews balsa glider activity with students during Young Astronaut Day activities.

# Employees "fall into microgravity"

A safe environment was maintained for more than 600 Glenn employees despite encouragement to "Fall Into Microgravity" during the October 24<sup>th</sup> open house sponsored by the Microgravity Division and associates. The event featured tours of the U.S. Destiny Laboratory, a mockup of the facility aboard the International Space Station, the "Zero-G" 5.18-second microgravity drop facility, and "Mini-Drop Tower" demonstrations. Live drops of actual experiment packages were performed for preregistered tours of the 2.2-Second Drop Tower.

This was also the first opportunity for a general audience to peer into the new bioscience-engineering laboratories. On special tours of the Telescience Support Center, employees imagined peering over the shoulders of onsite researchers working with astronauts and mission controllers to operate on-orbit experiments. Several test facilities such as the Acoustical Test Laboratory and the Microgravity Emissions Laboratory (MEL) that help to prepare and certify experiments for flight, also hosted guests. Refreshments were available throughout the day in addition to the ever-popular "Picture Yourself in Space" photo booth for employees who sought to temporarily transform themselves into an astronaut. ♦



MEL tour.

Photos by S. Jenise Veris



"Picture Yourself in Space" booth.

## News Notes

**LESA MEETING:** LESA/IFPTE, Local 28, will hold its next monthly membership meeting on Wednesday, December 10, at noon in the

**NEW YEAR, NEW YOU:** Sign up for the new year fitness classes Monday, December 22, starting at 6 a.m. Yoga,

pilates, step aerobics, kickboxing, and strength training classes are offered on a first-registered basis. Call 216-433-6313 or visit [www.grc.nasa.gov/OHR/Fitness](http://www.grc.nasa.gov/OHR/Fitness) for a class schedule and sign up information.

**AFGE MEETING:** AFGE Local 2182 will hold its next monthly membership meeting on Wednesday, January 7, 2004, at 5 p.m. at

All members are encouraged to attend.

**For announcements on inclement weather or emergency closings of the Center, call 216-433-WEAT.**

## #1 Team NASA



Team NASA recently participated in the Cleveland edition of The America's Walk for Diabetes. This year, approximately 35 team members (civil servants and support service contractors) raised a total of \$6,124 for The American Diabetes Association. This is the second year that NASA was represented. It was also the second year that NASA earned first place for largest dollars raised and largest number of walkers.

## Exchange Corner

● The 21<sup>st</sup> Annual Appreciation Breakfast Buffet will be served on Wednesday, December 24, in the Main Cafeteria from 7 to 9 a.m. The menu includes scrambled eggs, sausage, home fries, fresh fruit salad, Danish, muffins, coffee, and tea at \$3.75 per person.

● As you shop for the Holidays don't forget NASA gift ideas are available at the Exchange Store. Shop the week of December 15 through 19 and receive special savings each day. The Exchange Store hours are 10 a.m. to 2 p.m.

## Budget Formulation Go-Live update

On Monday, October 27, NASA turned on the SAP Budget Formulation (BF) module for all centers. This is the second SAP module (remember Core last year?) to be implemented by the Agency. The BF team, lead by Karin Gornick and supported by RAMO and the extended team, was well prepared for the go-live day. Most users have been trained and issued IDs and passwords and are ready to enter the 2005 POP data. While the Agency only mandated that centers enter their 2006 budgets, Gornik felt that entering the 2005 data would give everyone an opportunity to use this great new tool as well as provide a baseline for the 2006 budget. ♦



# Woodward quietly makes a huge impact with JA

BY S. JENISE VERIS

For many Glenn employees, colorful, heavy-duty aluminum coat hangers, bookends, or stainless steel cookie sheets have become part of a holiday shopping tradition. But for Dick Woodward, Structures and Acoustics Division, they represent a labor of love as advisor for Glenn's Junior Achievement (JA) company of disabled students.

Other Glenn employees have donated their time and energy to the JA over the years, but none has invested more steadfast heart and soul into the organization. Woodward has been involved with the JA for 32 of his 37 years at the Center. No one can think of the JA without thinking of Dick Woodward.

Woodward, along with his wife, Mary Anne, is devoted to motivating disabled youth to achieve the same goals, with some limitations, that JA student members across the country work toward: to learn business skills and develop positive attitudes and thinking skills

that will enable them to grow up to become confident, productive members of society.

The holiday sales of the student-manufactured items are a practical application of those skills, which demonstrate "ableness" while earning a profit. Woodward coordinates the sales twice a year, at Christmas and Easter. The sales are held in the Main Cafeteria with the support of Exchange Business Manager Mark Betlejewski, who himself purchased dozens of hangers for the new coat racks installed during the 2002 Main Cafeteria renovation.

"The students consistently produce 200 to 300 high-quality hangers for sale each month, fashioned from a 1/4-inch aluminum rod and formed by a sequence of ingenious fixtures designed and built in the Glenn Fabrication Shop," Woodward stated proudly. "Every student has an opportunity to

Continued on page 9



Photo by S. Jenise Veris

Woodward joins JA members Debra Wollam, seated, and Tyna Eck on the production line to make hangers. Tamara Gardiner, student volunteer from Baldwin Wallace, looks on.

## Sikora shares experiences in investigation

Continued from page 3

I give a lot of credit to my wife, Wendy, and my entire family who pitched in at home in my absence. I'm very proud of them."

Throughout the investigation process, Sikora got to know and respect the board members, observing that each of them brought a unique expertise and perspective.

"I don't think you'll ever see a board like this again," Sikora explained. "Despite the fact that they are all nationally recognized senior executives and experts, they were personally involved in the entire process, talking firsthand with witnesses and overseeing the testing and analysis. They took their responsibility very seriously and supported one another tremendously."

The board's demanding schedule included visits to Kennedy, Marshall, and Johnson Space Centers. Sikora was grateful for the opportunity to travel with the board to learn firsthand about the shuttle and managing safety in high-risk, complex systems.

"At all the NASA centers, we were greeted with support and complete cooperation, even when they knew our findings could be of a negative nature," Sikora stressed. "This was a true example of One NASA coming together for the astronauts who were lost in the accident and for future astronauts."

Sikora was fascinated by the forensic detective work of the investigation. "It was remarkable how it all came together," he explained. "We initially had so little information that we feared

we might never determine the proximate cause of the accident. However, by May the board had a solid working scenario. I'm confident that we found exactly what happened."

Just prior to the release of the first volume of the report, Sikora returned to Cleveland. While he was gone, Sikora's staff not only carried on with the work in the office, but also supported him long distance whenever he needed assistance in the investigation. "They were great. I couldn't have done it without them," he said.

Looking back on the investigation, Sikora said it was a time he will never forget. "This was a unique opportunity for me and, I believe, for NASA as a whole," Sikora affirmed. "I hope our report will influence the future of human space flight in a positive way." ♦

# NACA holds reunion in Cleveland

BY DOREEN B. ZUDELL

Some of NASA's early pioneers gathered in Cleveland from October 10 to 12 for the National Advisory Committee for Aeronautics (NACA) 10<sup>th</sup> reunion. For onlookers, the gathering was a chance to meet some of the legendary figures of aeronautics. To participants, it was a group of friends getting together to reminisce and get caught up on current activities.

"About 250 people from the four corners of the United States attended the reunion," explained Irene Geye, who cochaired the reunion committee with her husband Richard "Dick" Geye. The Geyes and other committee members worked for 14 months to plan the event.

Joseph Algrantie, Robert Blue, Harry Finger, Glynn Lunney, John McTigue, and Andrew Stofan were guests on an impressive participant list that included many of the major early contributors to the Nation's aeronautics and space program. Another aeronautics pioneer, Wilbur Wright (portrayed by Thomas Benson, Engines Systems Technology Branch) joined the celebration to recognize 100 years of flight.

"Often people don't attend reunions because they're afraid they might not know anyone. This isn't the case with the NACA reunions," Dick Geye said. "Many retirees attend on a regular basis, and those who only come every so often have no trouble picking up where they left off years ago."

Participants enjoyed sightseeing excursions throughout the Cleveland area, including a visit to Glenn, where they toured several facilities. Members of the External Programs Directorate and the Logistics and Technical Information Division assisted the reunion committee in a variety of ways, including identifying informational handouts that reflect NACA's and NASA's contributions over the years and material that details current research.

Ten NACA reunions have been hosted by various centers throughout the years. The 11<sup>th</sup> is under consideration for 2005. ♦



Photos by Marvin Smith



## Glenn sets up shop at the Galleria

Shoppers at Downtown Cleveland's Galleria Mall will have easy access to NASA-related gifts this holiday season. At the invitation of the Galleria, Glenn's Exchange has set up a store in the mall that offers many of the items previously available only onsite at Glenn.

In addition to gift items, the store boasts similar exhibits to those viewed at Glenn's Visitor Center (VC). This provides an appealing backdrop and offers opportunities to share the NASA story with the public. On scheduled occasions, VC personnel are on hand in the Galleria location to answer questions and to invite visitors to Glenn. Informational handouts about NASA are available for shoppers to take home as well.

Be sure to stop by the Galleria Mall to say hello to the Exchange and VC staffs and support this endeavor. All Glenn employees will receive 10 percent off their purchases when they show their Glenn photo identification badge. The store is open Mondays through Saturdays from 10 a.m. to 6 p.m. through December 31. Indoor parking is free on Saturdays. ♦

# NASA reaches out during Centennial celebrations

BY S. JENISE VERIS

From the imaginative pages of the *Re-Living the Wright Way* program on the Web to engaging exhibitory around the country, Glenn has helped reveal the wonders of flight to millions and inspired a new generation of dreamers through its outreach efforts for the Centennial of Flight celebration.

Throughout this centennial year, education and exhibit teams were united in one objective: present hands-on, inquiry-based activities through which the public can relive the Wright Brothers' invention process. Every activity and display affords an opportunity for interaction with NASA researchers, scientists, and engineers from across the Agency, while illustrating the historical relevance of the Wrights' work to NASA's aerospace technology efforts.

"We were tasked by Headquarters to create a 'One NASA' exhibit covering the Agency's past, present, and future programs—not just aeronautics, but all aspects of flight," said Exhibit Project Manager David DeFelice, Glenn Community and Media Relations Office. "The exhibit was designed to engage, inform, and inspire the public. Based on the rave reviews we've received, we know that we succeeded."

Covering 10,000 square feet, the Glenn-managed "Powering Flights, Powering

*Students were engaged in a host of educational hands-on activities during the Dayton Air Show, part of the Inventing Flight celebration.*



Photo by Carol Galica

Dreams. . ." exhibit has drawn record crowds across the country. It houses a broad array of historical artifacts, models, and a working wind tunnel. Of particular note are items such as a Moon rock, authentic space suits, and 24 interactive computer workstations, each with a different software program. A graphical timeline runs through the exhibit, and a series of historical vignettes explores NASA's past. A centrally located information booth distributes NASA literature, posters, and lithographs.

"The massive display, if not the largest, is certainly the most ambitious tour NASA has ever assembled and staffed (15 to 20 NASA volunteers, per shift, each day)," DeFelice explained. DeFelice, Exhibit Manager Richard Manco (BTAS), and Exhibit Assistant Dwayne Hunt (BTAS) worked with determination to ensure that the Center met demands for appearances in North Carolina, Ohio, Wisconsin, New York, and California.

While the exhibit staff and volunteers tell the NASA story in person, Carol Galica (IDI) of Glenn's Educational Programs Office (EPO) helps make NASA's message available in an interactive form through the *Re-Living the Wright Way* Web program. Managed by EPO, in coop-

eration with the Learning Technologies Project and the Aerospace Educational Coordinating Committee, the site is highly regarded for its accessibility, flexibility, and timely, age-appropriate, customer-driven content.

"Anyone with Internet access can locate the site, which has a direct link to NASA engineers in the field via e-mail," Galica explained. "The site has processed over 5 million hits since its debut in September 2001 including 3 million over the past 12 months."

The Web team is reaching beyond the Internet and into classrooms teaming on such projects as an Orville and Wilbur Wright program developed and performed by Tom Benson (NASA Glenn aerodynamicist), and Roger Storm (Fairview High School chemistry teacher) for local school and distance-learning presentations, media interviews, and summer workshops.

The EPO has also helped to develop Agency teachers' guides this year, such as *Learning to Fly: the Wright Brothers' Adventure*; *Out of Control: Control Surfaces Videoconference and Webcast* DVD; *WrightSim*, a Wright Brothers virtual reality simulator; and the EPO *Vision Station*, a flight simulator.

As DeFelice and Galica look forward to the momentous event planned for Kitty Hawk, they find great satisfaction in Glenn's efforts to inspire a new generation of explorers as well as the products of outreach that will become part of NASA's aerospace legacy. ♦

Photo by Jeff Caplan, NASA Langley



*These visitors look at an historic model of the U.S. space shuttle docked to the Russian Mir Space Station. They are among over 2 million people who viewed NASA's Centennial of Flight touring exhibition.*



# Duplicating Services at your service

Need to get your message out in an attractive, affordable, and efficient manner? Glenn makes free and cost-efficient services available to employees that can dramatically improve the format of presentations and reports.

The Logistics and Technical Information Division (LTID) recently held an open house in its full-service duplicating facility. Visitors—more than 300—met the staff, received information about services, and saw equipment demonstrations and samples of work.

"Duplicating Services offers Glenn's research, administrative, and management personnel specialized, professional products not easily done using local copy machines or office printers," explained Kristen Easton, Publishing Services manager, IDI/LTID. "A few professional touches can really improve the way your project looks on paper."

The newly enhanced Duplicating Services facility,

is equipped with powerful digital publication systems that are capable of turning over large volumes of high-resolution, superior-quality pages. Last year, Duplicating Services produced more than 8 million impressions (an impression is a single printed page).

"We can turn those pages into booklets, brochures, or one of many other document types," Easton said. "Add your choice of specialized finishing to give your document professional appeal."

Duplicating is one of three services that comprise what LTID calls "a global strategy for printing." The other two are the Copier Program and the Government Printing Office (GPO). Operating these services under the same umbrella through LTID better ensures that the customers' needs are met in an efficient and effective manner.

The Copier Program maintains all of the

Center's 125 general-use copiers, which are conveniently placed to provide customers with access to copies at currently no direct charge to users anywhere onsite. GPO printing and duplicating is available for printing needs that cannot be met through Duplicating Services' in-plant facility because of limitations or legal restrictions. Examples of this include perfect binding, hardcover binding, saddle stitching over 80 pages, and specialty items such as decals.

GPO was established by Title 44 of the U.S. Code, which requires Government employees to procure printing duplicating and printing services only through the GPO or an authorized Agency field plant, such as Glenn's Duplicating Services facility, explained Dennis Dubyk, installation printing management officer, LTID. "The GPO functions as a procurement agency, buying printing and duplicating services from commercial printers—almost 2300 different firms last year, which results in very competitive pricing," Dubyk said.

Onsite at Glenn, Duplicating Services helps with very large documents or work that involves finishing beyond what office copiers can do. Black and white copies are considered a core service and are provided at no cost to the customer. High-quality color duplicating usually carries a charge because of the extra materials expense.

Customers should submit a C-709 Work Request form with a valid funding number (funding numbers are used for tracking purposes for no-charge jobs). To learn more about LTID's duplicating services, call customer service at 3-3846. For GPO inquiries, contact Dubyk at 3-5805. ♦



Photo by Jim Lucic

*Jeff Abbott (IDI), center, of LTID Duplicating Services, demonstrates the capabilities of the Xerox Docutech™ 6135 black and white printer to open house guests.*

## Woodward and JA

Continued from page 6

earn a small commission from the proceeds of each sale."

Woodward meets twice monthly from October through April with a group of about 10 students varying in age and disabilities at the

. With the help of supportive parents and other community volunteers, the students work for about an hour and half to produce the company's products, and then enjoy refreshments together. The Glenn JA is the only local company that maintains a traditional manufacturing program.

Woodward finds great inspiration from the students and the founder of the Center's JA company, Paul Brinich. His passion was rewarded by former NASA Administrator Richard Truly who nominated Woodward for President George H. W. Bush's "Thousand Points of Light" award for providing services that make a significant contribution to the betterment of society and have a lasting and permanent effect in people's lives.

After all these years, the passion is still there and the light still burns brightly in the eyes and heart of Dick Woodward. ♦

## Appointments



Dr. Lei

**Dr. Jih-Fen Lei** was selected deputy of the Research and Technology Directorate. Lei joins the rank of Senior Executive Service with a solid background of management, diversity of experience, and sound people-leadership skills. She previously served as chief of the Instrumentation and Controls Division where she managed a staff of 45 civil servants in the areas of sensors and electronics, optical instrumentation, and controls and dynamics. While there, she demonstrated interest in developing and mentoring subordinates as well as in building numerous partnerships and alliances across Glenn and with industry, international organizations, other government agencies, and academia. Lei has demonstrated knowledge of the issues facing each of the Directorate's research divisions and commands a great deal of respect within and outside of NASA because of her personal technical contributions (e.g. earning three *R&D 100* awards given annually for the world's top innovations).

**Dr. M. David Kankam** was selected university affairs officer of the Office of University Programs in the Research and Technology Directorate. A former faculty member of the University of Toronto, Canada, Kankam joined NASA in 1990 as a senior research engineer. Since then, he has supported numerous Agencywide university affairs, including as a visiting professor. Kankam's strong university affairs background and demonstrated ability to coordinate large complex teams are important assets for Glenn in enhancing collaboration with academia and inspiring the next generation of aerospace engineers for the 21<sup>st</sup> century.



Dr. Kankam

## Best Papers

**Dr. George Baaklini**, Instrumentation and Controls Division, and his coauthor Dr. Ali Abdul-Aziz of Cleveland State University, recently received the 2003 American Society for Nondestructive Testing (ASNT) Outstanding Paper Award for the *Materials Evaluation Journal*. They accepted the award for their paper entitled "Challenges in Integrating Nondestructive Evaluation and Finite Element Methods for Realistic



Dr. Baaklini



Plachta

Structural Analysis," at the ASNT Fall Conference and Quality Testing Show held October 13-17 in Pittsburg, PA.

**Dave Plachta**, Turbomachinery and Propulsion Systems Division, received the 2003 Cryogenic Engineering Conference Russell B. Scott Award for the Best Applications Paper. Plachta's paper is entitled, "Large Scale Demonstration of Liquid Hydrogen Storage With Zero Boiloff."

## In Appreciation

My family and I would like to thank everyone who offered expressions of sympathy, prayers, cards, and flowers at the passing of my mother. It is a comfort to have so many caring coworkers and friends.  
—Mona Shopoff

## In Memory

## Varady left her mark on Glenn

Judy Varady, 51, an InDyne employee, recently died. She was a calibration technician in Glenn's Calibration Laboratory since May of 1999. She attained her certification as a Calibration Quality Technician from the American Society for Quality in October 1999. She



Varady

mastered and performed many of the special pressure calibrations with her wonderful ability to learn and comprehend quickly, bringing to Glenn a wealth of understanding, knowledge, and talent. She was the beloved mother of the number one treasure of her life, Adam, and a friend to many at the Lab. She was a fine, inspirational woman that has left a mark in the hearts of all that had the privilege of knowing her. ♦

*AeroSpace Frontiers* is an official publication of Glenn Research Center, National Aeronautics and Space Administration. It is published the first Friday of each month by the Community and Media Relations Office in the interest of the Glenn workforce, retirees, government officials, business leaders, and the general public. Its circulation is approximately 6700.

Editor.....Doreen B. Zudell  
InDyne, Inc.  
Assistant Editor.....S. Jenise Veris  
InDyne, Inc.  
Managing Editor.....Lori J. Rachul

**DEADLINES:** News items and brief announcements for publication in the January issue must be received by noon, December 19. The deadline for the February issue is noon, January 16. Submit contributions to the editor via e-mail, doreen.zudell@grc.nasa.gov, fax 216-433-8143, phone 216-433-5317 or 216-433-2888, or MS 3-11. Ideas for news stories are welcome but will be published as space allows. View us online at <http://AeroSpaceFrontiers.grc.nasa.gov>.



## "Special" Children's Fund

The Glenn "Special" Children's Fund was organized in 1958 to help all Glenn employees who have children with special needs. Forty-five years later, the fund continues to assist Glenn employees during this special time of year. Employees who want to continue this tradition simply contribute the money they would normally spend on holiday cards to coworkers and postage to the fund.

Because the success of this fund depends on the Glenn community, the "Special" Children's Fund Committee asks employees to continue to be as generous as possible. Last year's generous contributions to this fund totaled \$2,436.00. If there are no requests from employees, the money collected goes to local charities. Last year, the money was distributed among three local charities: Special Children First, Inc., Our Lady of the Wayside, and Youth Challenge. Thanks to the support of management at Glenn, 100 percent of the money donated went to the care of children.

Please send tax-deductible donations, no matter how small, to Carol Stofka at MS 500-320 or Tim Hogan at MS 21-15. Cash and checks are accepted. Make checks payable to "Glenn's Special Children's Fund." To aid employees in their contributions, the committee will be sending donation envelopes in the interoffice mail.

Employees needing assistance for family members should contact Hogan at 216-433-3111. ♦



## Behind the Badge

### a closer look at our colleagues

#### Klaus Gumto



Photo by Marvin Smith

**Job Assignment:** I'm a computer engineer. Currently, I'm serving as the software lead for the electrical power system software on the International Space Station.

**Time at NASA:** I'm three months shy of 40 years.

**Describe your family:** I recently remarried and live in Strongsville. I have two daughters living in , and my father lives on the far East Side. The rest of my family is still in Germany, where I was born.

**Dream job:** My dream job doesn't exist yet. Ever since I was little I have been fascinated by our universe. I would love to be an astronaut

when we have manned exploration of our solar system or do astronomical research using a very large orbital or Moon-based telescope.

**Social activities at Glenn:** Over the years I have been a member of the astronomy, running, travel, and camera clubs as well as the country and western dance group. I am also in the Lewis ski club, which I feel is the most active and fun group at the Lab. I am one of the founders of the current edition of the club. My most rewarding activity, and one I hope we can reinstate, has been the Children's Holiday Show. I have been part of it since 1972, and over the years I have helped in many capacities. Most recently I have added being a character (Frosty, as you can tell from the photo) for the Friday and Saturday activities. It has been a real privilege to work with such a talented, creative, and dedicated group of volunteers who spent time after work for 3 months every year to produce the show. The friendships and camaraderie have provided me with some of my most treasured memories of my time at the Center. However, the real magic for me was watching the children enjoying what we created for them and interacting with the costumed characters.

**Hobbies/interests outside of NASA:** I enjoy skiing, both downhill and cross country, sailing on my boat in the summer, photography, video, astronomy (I have several telescopes), traveling, running, biking, cooking, growing cacti, and building computers.

**Food temptations:** Chocolate! And anything spicy, which could be Indian, Mexican, Hunan, Szechwan, Thai, or Jamaican foods.

**Philosophy to live by:** I have several. A couple of my favorites include "Life is too short to worry about the small things," and "Everyone I meet is a nice person, until they prove otherwise."

**Stress buster:** I try to keep my stress level to a minimum with a positive attitude, but a good run and workout at lunch time really does the job.

**AeroSpace Frontiers** is adding some spice to its "Behind the Badge" column by offering more question options and focusing on the unique aspects of Glenn employees. If you or someone you know is interested in being featured in this column, please contact us at 216-433-5317 or Doreen.Zudell@grc.nasa.gov.



# Special programs bring important awareness

BY S. JENISE VERIS

A goal common to all of Glenn's heritage and awareness month programs is the desire to highlight the latest contributions of a particular group or share information previously unknown. "Each program is another opportunity for Glenn employees to acknowledge the contributions of others and to show we value them as coworkers," affirmed Center Director Dr. Julian Earls at a recent awareness event.

The October 21 **Disability Education Health Fair** sponsored by the Disability Awareness Group, was an opportunity to pick up posters and pamphlets from a variety of organizations to learn about the services and products available to help those with disabilities. Employees were also offered free glaucoma, glucose, and blood pressure checks. Particularly helpful was a candid presentation by licensed independent social worker Kathleen Kapusta called the "Sandwich Generation." She addressed a dilemma that faces a growing population of Glenn employees—becoming

caregivers for aging or disabled parents while balancing work and other family commitments.

On November 6, the **Native Indian Heritage Month** theme, "Strengthening the Spirit," was supported



C-2003-1980

Photo by Marvin Smith

in accounts of Glenn's guest speaker's drive to educate Native American youth as part of a revitalization and development effort, while maintaining a moral commitment to family and Indian heri-



Photo by S. Jenise Veris

*Above: Free eye exams at the Disability Health and Education Fair. Left: Norbert Hill and Avis Hudson, NAAC advisor, at right, enjoy the cultural cuisine served after the Native Indian Heritage program.*

tage. Norbert Hill, a member of the Oneida Nation from Wisconsin and executive director of the American Indian Graduate Center, spoke about education as a tool for leveling the field of opportunity for Native Americans and for building fences "support" from caring people of all races that will enable youth to become successful without having to sacrifice their identity. The event was sponsored by Glenn's Native American Advisory Council managed through the Office of Equal Opportunity Programs. ♦

National Aeronautics and  
Space Administration

**John H. Glenn Research Center  
Lewis Field**

21000 Brookpark Road  
Cleveland, Ohio 44135



Volume 5 Issue 12 December 2003



AeroSpace Frontiers  
is recyclable!

